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Wednesday, June 22, 2005

Case Serial Number: 10/626553

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Etelka.griffin@uspto.gov

Searchinoles

Pat# 5704720	,		
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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents

Terms: patno=5704720 (Edit Search)

553584 (08) 5704720 January 6, 1998

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5704720

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Link to Claims Section

January 6, 1998

Sliding bearing

APPL-NO: 553584 (08)

FILED-DATE: February 26, 1996

GRANTED-DATE: January 6, 1998

CORE TERMS: sliding, peak, groove, rotating, shaft, height, measured, resistance, helical,

oil ...

ENGLISH-ABST:

A helical groove 1B is formed in the sliding surface 1A of a sliding bearing 1 over the entire axial region thereof. To establish the height of a peak 1a defined by the helical groove 1B, an imaginary reference line L extending parallel to the axis is formed which is determined such that the total cross-sectional area of all the peaks 1a is equal to the total cross-sectional area of all the valleys 1b when the helical groove 1B is considered in axial section. A height, as measured from the reference line L to the top 1a' of the peak 1a is chosen in the range of from 1 to 8 [mgr]m. The space created by forming the valleys 1b allows the supply of lubricant oil to be increased, thereby simultaneously achieving a reduction in the frictional resistance and the occurrence of an impact sound.

Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant

Patents 💥

Terms: patno=5704720 (Edit Search)

View: Custom

Segments: Abst, Date, English-abst, Granted-date, Reissue-comment

Date/Time: Wednesday, June 22, 2005 - 9:54 AM EDT

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1 / 1 PLUSPAT - @QUESTEL-ORBIT - image
Patent Number :
 US5704720 A 19980106 [US5704720]
Title :
  (A) Sliding bearing
Patent Assignee :
  (A) TAIHO KOGYO CO LTD (JP)
Patent Assignee :
  Taiho Kogyo Company, Ltd., Toyota [JP]
Inventor(s):
  (A) KUMADA YOSHIO (JP); HASHIZUME KATSUYUKI (JP); KAMIYA SOJI (JP)
Application Nbr :
 US55358496 19960226 [1996US-0553584]
Filing Details :
 PCT/JP95/00467 19950317 [1995WO-JP00467]
 WO95/25904 19950928 [WO9525904]
Priority Details :
 JP7396294 19940318 [1994JP-0073962]
 WOJP9500467 19950317 [1995WO-JP00467]
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  (A) F16C-017/00
EPO ECLA Class :
 F16C-033/10B2
US Patent Class :
 ORIGINAL (O) : 384625000
Document Type :
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Citations :
 US4400099; US4538929; US4561787; US4606653; US5071263; US5116144;
  US5238311; AT385822 B; EP0155257 B1; EP0155257 A2; JP60-205014;
 JP63-6215; JP63-30619; JP63-11530; JP2-142921; JP4-39461; JP5-6412;
  JP5-8337; JP6-19850
Publication Stage :
  (A) United States patent
Abstract :
  A helical groove 1B is formed in the sliding surface 1A of a sliding
 bearing 1 over the entire axial region thereof. To establish the height
  of a peak 1a defined by the helical groove 1B, an imaginary reference
  line L extending parallel to the axis is formed which is determined such
  that the total cross-sectional area of all the peaks 1a is equal to the
  total cross-sectional area of all the valleys 1b when the helical
  groove 1B is considered in axial section. A height, as measured from the
  reference line L to the top la' of the peak la is chosen in the range
  of from 1 to 8 MU m. The space created by forming the valleys 1b allows
  the supply of lubricant oil to be increased, thereby simultaneously
  achieving a reduction in the frictional resistance and the occurrence of
  an impact sound.
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1 / 1
Patent Number :
 US5704720 A 19980106 [US5704720]
Application Number :
  US55358496 19960226 [1996US-0553584]
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Action Taken :

20021015 US/RF-A

REISSUE APPLICATION FILED EFFECTIVE DATE: 20020802 Update Code : 2003-22 1 / 1 CRXX - @CLAIMS/RRX Patent Number : 5,704,720 A 19980106 [US5704720] Patent Assignee : Taiho Kogyo Co Ltd JP Actions : 20020802 REISSUE REQUESTED ISSUE DATE OF O.G.: 20021015 REISSUE REQUEST NUMBER: 10/210813 EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3622 Reissue Patent Number: INPADOC - @INPADOC 1 / 1 Patent Number : US 5704720 A 19980106 [US5704720] Title : Sliding bearing Inventor(s): KUMADA YOSHIO [JP]; HASHIZUME KATSUYUKI [JP]; KAMIYA SOJI [JP] Patent Assignee (Words) : TAIHO KOGYO CO LTD [JP] Application Details : US 553584/96-A 19960226 [1996US-0553584] Priority Details : JP 73962/94-A 19940318 [1994JP-0073962] WO 9500467/95(JP)-W 19950317 [1995WO-JP00467] Intl. Patent Class. : F16C-017/00 1 / 1 LGST - @EPO Patent Number : US5704720 A 19980106 [US5704720] Application Number : US55358496 19960226 [1996US-0553584] Action Taken : 20021015 US/RF-A REISSUE APPLICATION FILED EFFECTIVE DATE: 20020802

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